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DATE MAILED: 10/08/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 10/08/20/09 HEWLETT-PACKARD COMPANY Intellectual Property Administration 3404 E. Harmony Road Mail Ston 35

FORT COLLINS, CO 80528

EXAMINER				
QUIETT, CARRAMAH J				
ART UNIT	PAPER NUMBER			
2622	•			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,165	02/04/2004	Brad R. Larson	200314257-1	5183	
TITLE OF INVENTION; DIGITAL CAMERA AND METHOD FOR IN CREATING STILL PANORAMAS AND COMPOSITE PHOTOGRAPHS					

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 0.1068/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance of nerwise in Block 1, by	orders and notification a) specifying a new co	of m erresp	aintenance fees v ondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address rate "FEE ADDRESS" i
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	FOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/772,165	02/04/2004	•	Brad R. Larson				200314257-1	5183
TITLE OF INVENTION	: DIGITAL CAMERA	AND METHOD FOR IN	CREATING STILL PA	ANOI	RAMAS AND CO	OMPOS	ITE PHOTOGRAPH:	3
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	01/08/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
QUIETT, CA		2622	348-208140					
1. Change of correspondence address or indication of "Fee Address" (37 2. For printing on the patent front page, list CFR 1.563). (1) the same of up to 3 maintained astern attendance.								
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Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	r type	e)			
PLEASE NOTE: Uni	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assigned eletion of this form is NO	data will appear on th	e par	tent. If an assign	ee is id	lentified below, the de	ocument has been filed f
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accept ites Patent and Trademar	ed from anyone other th k Office.	an th	e applicant; a regi	stered a	attorney or agent; or th	e assignee or other party
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FORT COLLINS, CO 80528

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10/772,165	02/04/2004	Brad R. Larson	200314257-1	5183
22879 75	90 10/08/2009		EXAM	INER
HEWLETT-PAC	KARD COMPANY	QUIETT, CA	RRAMAH J	
Intellectual Propert		ART UNIT	PAPER NUMBER	
3404 E. Harmony l	Road	2622		
Mail Stop 35			DATE MAILED: 10/08/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 729 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 729 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/772,165	LARSON, BRAD R.
Examiner	Art Unit
Carramah J. Quiett	2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to 08/13/2009.
- 2. The allowed claim(s) is/are 1-21.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) \(\subseteq \text{Some*} \) c) \(\subseteq \text{None} \) of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08). Pacer No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413) Paper No./Mail Date
- T Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- 9. ☐ Other /Lin Ye/

Supervisory Patent Examiner, Art Unit 2622

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Art Unit: 2622

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/13/2009 has been entered.

Information Disclosure Statement

The information disclosure statement (IDS), filed on 08/13/2009, has been placed in the application file, and the information referred to therein has been considered as to the merits.

Allowable Subject Matter

- Claims 1-21 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

a processing algorithm that runs on the processing circuitry that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 2-10 are allowed because claims 2-10 depend from claim 1.

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Art Unit: 2622

Claim 11 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens, a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

using video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 12-18 are allowed because claims 12-18 depend from claim 11.

Claim 19 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens, a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, a user interface, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

(6) using video object tracking to track the transparent displayed image as the transparent displayed image moves across the display in a direction that is opposite to the direction of the subsequent photograph until the transparent displayed image overlaps a predetermined portion of the subsequent photograph that is to be taken, which overlap is used to align and place the subsequent photograph relative to the photograph, in combination with the other claimed elements. Claim 20 is allowed because claim 20 depends from claim 1.

Claim 21 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

processing means coupled to the display, lens, image sensor, and storage device hat embodies a processing algorithm that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carramah J. Quiett whose telephone number is (571)272-7316. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached on (571)272-7372. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lin Ye/ Supervisory Patent Examiner, Art Unit 2622

/C. J. Q./ Examiner, Art Unit 2622 September 30, 2009